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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,706	09/29/2003	Hye-Sook Hwang	0630-1851P	9257
2252	7590	09/05/2008	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			ALI, FARHAD	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			2146	
NOTIFICATION DATE		DELIVERY MODE		
09/05/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/671,706	Applicant(s) HWANG, HYE-SOOK
	Examiner FARHAD ALI	Art Unit 2146

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 25 July 2008.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-17 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zintel (US 6,779,004 B1) in view of Cho et al. (US 7,376,723 B2).

Claim 1

Zintel teaches a selective device recognition apparatus in a UPnP based home network, the apparatus comprising: a network stream processing unit configured to parse a device characteristic data of a device and to read a network transmission possible identifier and a device characteristic identifier, the device being automatically detectable in the UPnP based home network (Column 7 Lines 8-23 “User Control Point” and “The set of modules that enable communication with a UPnP Controlled Device...”; and see Table on column 14 “Description Client” which “receive description documents”).

Zintel does not specifically disclose a network transmission judging unit configured to compare the read network transmission possible identifier with a preset network transmission possible identifier, to judge whether to perform network transmission of the device characteristic data according to a result of the comparison,

and to selectively transmit the device characteristic data when the comparison result of the judging unit indicates the network transmission of the device characteristic data should be performed.

Cho et al. discloses "**the method comprising the steps of: a) allowing the UPnP proxy server to discover the UPnP devices in the home network, acquire information of the UPnP devices, create a device list on the basis of the acquired information and create a Web page of the created device list; b) allowing the client to select a specific one of the UPnP devices, to be controlled by a user, from the Web page and acquire information of the selected specific UPnP device; c) allowing the proxy server to register an event with respect to the specific UPnP device and control the specific device in response to a device control command from the client; d) allowing the proxy server to receive an event message from the specific UPnP device in response to a change in state of the specific device and send the received event message to the client; and e) ending the control for the specific UPnP device and releasing the event registration"** (Column 3-4 Lines 57-13).

It would have been obvious to one of ordinary skill in the art to utilize Zintel's UPnP adapter with Cho's method for discovery and selective communication with an UPnP device. Zintel teaches a general UPnP network and adapter including a Control Point (CP) and secondary devices. Cho teaches a method that automatically establishes communication with these secondary devices through the use of advanced searching methods, and allows the client to specify which devices they would like to

connect to. Combining Cho with Zintel would create provide better functionality at the control point where selective communication would save time and processing power for creating and ending unnecessary connections.

Claim 2

Zintel teaches the apparatus of claim 1, further comprising:
a network interface configured to receive the device characteristic data transmitted from a home network device (**Column 7 Lines 8-23 “User Control Point”** and **“The set of modules that enable communication with a UPnP Controlled Device...”**);
and a transmission judgment table in which the network transmission possible identifier is matched-recorded with the device characteristic identifier read from the network stream processing unit (**Column 9 Lines 37-44 “Service State Table (SST)”** and **“A logical table consisting of rows of [Variable, Type, Legal Values, Default Value, Current Value] that represents the current electrical, mechanical and/or logical state of a Service.”**).

Claim 3

Zintel teaches the apparatus of claim 1, wherein the network stream processing unit includes:

a preprocessor configured to parse the device characteristic data;

a buffer manager configured to temporally store the device characteristic data parsed in the preprocessor in a buffer and to output a registry signal corresponded thereto;

and an identifier reader configured to search the device characteristic data temporally stored in the buffer according to the registry signal outputted from the buffer manager and read the device characteristic identifier and the network transmission identifier (**See Figure 21. “Processing Unit” “RAM” “LAN” and “Applications”**).

Claim 4

Zintel teaches the apparatus of claim 3, wherein the preprocessor performs parsing of the device characteristic data by device characteristic data units divided by a token(/) (**See Figure 16 XML data in token format**).

Claim 5

Zintel teaches the apparatus of claim 1, wherein the network transmission judging unit includes:

a device characteristic identifier detecting module configured to detect a device characteristic identifier that is the same with the device characteristic identifier read from the network stream processing unit;

a network transmission possible identifier comparing module configured to compare the network transmission possible identifier detected by the device

characteristic identifier detecting module with the network transmission possible identifier read from the network stream processing unit; and

a transmission judging module configured to judge whether it is possible to perform the network transmission of the device characteristic data indicated by the device characteristic identifier according to the comparison result (**Column 11 Lines14-15** “**Discovery Client**” is “**The module that runs in a User Control Point that initiates SSDP queries**” and **Column 14 Line 9** “**Description Client**” and see Figure on column 14 “**Description Client**” which “receive description documents” and **Column 7 Lines 8-23** “**User Control Point**” and “**The set of modules that enable communication with a UPnP Controlled Device...**”).

Claim 6

Zintel teaches a selective device recognition method in a UPnP based home network, the method comprising:

receiving and parsing a device characteristic data of a device, the device being automatically detectable in the UPnP based home network (see Figure on column 14 “Description Client” which “receive description documents”);

reading a device characteristic identifier and a network transmission possible identifier from the parsed device characteristic data (**Column 11 Lines14-15** “**Discovery Client**” is “**The module that runs in a User Control Point that initiates SSDP queries**” and **Column 9 Lines 6-8** “**Description Document**” “**A structured**

unit of data that is used by a User Control Point or UPnP Bridge to learn the capabilities of a Controlled Device").

Zintel does not specifically disclose comparing the read network transmission possible identifier with a preset network transmission possible identifier, judging whether to perform network transmission of the device characteristic data corresponded to the read device characteristic identifier is performed according to a result of the comparison, and to selectively transmitting the device characteristic data when the comparison result of the judging unit indicates the network transmission of the device characteristic data should be performed.

Cho et al. discloses "**the method comprising the steps of: a) allowing the UPnP proxy server to discover the UPnP devices in the home network, acquire information of the UPnP devices, create a device list on the basis of the acquired information and create a Web page of the created device list; b) allowing the client to select a specific one of the UPnP devices, to be controlled by a user, from the Web page and acquire information of the selected specific UPnP device; c) allowing the proxy server to register an event with respect to the specific UPnP device and control the specific device in response to a device control command from the client; d) allowing the proxy server to receive an event message from the specific UPnP device in response to a change in state of the specific device and send the received event message to the client; and e) ending the control for the specific UPnP device and releasing the event registration" (Column 3-4 Lines 57-13).**

It would have been obvious to one of ordinary skill in the art to utilize Zintel's UPnP adapter with Cho's method for discovery and selective communication with an UPnP device. Zintel teaches a general UPnP network and adapter including a Control Point (CP) and secondary devices. Cho teaches a method that automatically establishes communication with these secondary devices through the use of advanced searching methods, and allows the client to specify which devices they would like to connect to. Combining Cho with Zintel would create provide better functionality at the control point where selective communication would save time and processing power for creating and ending unnecessary connections.

Claim 7

Zintel teaches the method of claim 6, wherein parsing the received device characteristic data is performed by device characteristic data units divided by a token(/) or parsing the received device characteristic data is performed by inserting a null string after the token in the parsing step (**Column 33 Lines 36-42 “SzHeaders [in] null-terminated text string containing the headers for the event, each separated by CRLF. SzEventBody [in] null-terminated text string containing the body of the event message”**).

Claim 8

Zintel teaches the method of claim 6, wherein the device characteristic data is a request message for UPnP device recognition in a UPnP CP (control point) device

(Column 11 Lines14-15 “Discovery Client” is “The module that runs in a User Control Point that initiates SSDP queries”).

Claim 9

Zintel teaches the method of claim 8, wherein the request message includes inherent network transmission possible identifier information per each device characteristic identifier (**Applicant admits inherency in the claim**).

Claim 10

Zintel teaches the method of claim 8, wherein the UPnP device includes the network transmission possible identifier, and recognition is judged by the UPnP CP device (**See Figure 10 and see Table on column 14 “Discovery Client” “Discovery Server” “Description Client” “Description Server” and “Control Server”**).

Claim 11

Zintel teaches the method of claim 8, wherein the UPnP CP device and the UPnP device exist in a same local network (**See Figure 2 User Control Point and Controlled Device**).

Claim 12

Zintel teaches the method of claim 6, wherein the device characteristic data is an advertisement message for notifying a UPnP device itself (**see Figure on column 14 “Description Server” which “Provide description documents”**).

Claim 13

Zintel teaches the method of claim 12, wherein the advertisement message includes inherent network transmission possible identifier information per each device characteristic identifier (**Applicant admits inherency in the claim**).

Claim 14

Zintel teaches the method of claim 6, wherein the network transmission possible identifier of the read device characteristic identifier is compared with a network transmission possible identifier recorded in a transmission judgment table in the network transmission judging step (**Column 9 Lines 37-44 “Service State Table (SST)” and “A logical table consisting of rows of [Variable, Type, Legal Values, Default Value, Current Value] that represents the current electrical, mechanical and/or logical state of a Service.”**).

Claim 15

Zintel teaches the method of claim 6, wherein the network transmission judging step includes:

outputting a request message to a UPnP CP (control point) device for a message not having network transmission possible identifier information; and sequentially comparing each network transmission possible identifier with each network transmission possible identifier of a UPnP device for a message having network transmission possible identifier information and transmitting a response message to the UPnP CP device according to the comparison result (**Column 21 Lines 5-14 “User Control Points 104 are not required to have any prior knowledge of the SCPs 402 required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control Point the protocols required to control its Services, such that the User Control Point will be able to implement these protocols dynamically”**).

Claim 16

Zintel teaches the method of claim 6, wherein the network transmission judging step includes:

recognizing a UPnP device by a general recognition process for a message not having the network transmission possible identifier information; and sequentially the comparing network transmission possible identifier information with a network transmission possible identifier of a UPnP CP device when the network transmission possible identifier information is detected and recognizing a pertinent device and a service according to the comparison result (**Column 21 Lines 5-14 “User Control Points 104 are not required to have any prior knowledge of the SCPs 402**

required to control the Services on the various devices. Therefore, a Controlled Device or Bridge must be able to describe to a User Control Point the protocols required to control its Services, such that the User Control Point will be able to implement these protocols dynamically").

Claim 17

Claim 17 is similar to scope of claims 1 and 6 and is rejected similarly to the reasons discussed above.

Response to Arguments

2. Applicant's arguments with respect to claim 1-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARHAD ALI whose telephone number is (571)270-1920. The examiner can normally be reached on Monday thru Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C. Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Farhad Ali/
Examiner, Art Unit 2146

/Jeffrey Pwu/
Supervisory Patent Examiner, Art Unit 2146